

AMENDMENTS

Amendments to the Claims:

The following listing of claims replaces all previous listings or versions thereof:

1-13. (cancelled).

- 14. (Currently amended) A method for selecting a compound which reduces an activity of [[a]] an alpha subunit of an SCN3A sodium channel comprising:
 - (a) contacting a composition comprising [[a]] an alpha subunit of an SCN3A sodium ion channel protein with [[a]] at least one test compound;
 - (b) assaying the activity of <u>alpha subunit of</u> the sodium ion channel in the presence of the said at least one test compound;
 - (c) comparing the activity of the <u>alpha subunit of the sodium</u> ion channel in the absence of said <u>at least one</u> test compound;
 - (d) selecting a compound which reduces the activity of the <u>alpha subunit of the sodium</u> ion channel as compared to the activity of the <u>alpha subunit of the sodium</u> ion channel in the absence of the <u>at least one</u> test compound;

wherein said <u>alpha subunit of the SCN3A sodium ion channel</u> protein is selected from the group consisting of

- (i) the [[an]] amino acid sequence set forth in SEQ ID NO:67; and
- (ii) [[a]] an SCN3A protein encoded expressed by a full length SCN3A nucleic acid sequence which hybridizes under high stringency conditions having at least 95% identity to the nucleic acid sequence as set forth in SEQ ID NO:65 and having a sodium ion channel activity, wherein said high stringency conditions comprise a hybridization at 65°C in 5 x SSC, 5 x Denhardt's solutions, 1% SDS, and 100 μg/ml denatured salmon sperm DNA; and

wherein said alpha subunit of the SCN3A sodium ion channel, when mutated, can lead to idiopathic generalized epilepsy.